LAB #01

Introduction to MATLAB



Spring 2023

**CSE-301L Signals & Systems Lab**

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Section: C

“On my honor, as a student of the University of Engineering and Technology, I have neither given nor received unauthorized assistance on this academic work”

Submitted to:

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(27 Feb 2023)

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**Task 1**

|  |
| --- |
|  |

**Output:**

>> task1

x =26

Name Size Bytes Class Attributes

x 1x1 8 double

y =26

Name Size Bytes Class Attributes

x 1x1 8 double

y 1x1 1 int8

Name : 'Sadeeq'

n = 83 97 100 101 101 113

c =

1.0e+03 \*

2.0230 0.0030 0.0010 0.0200 0.0540 0.0538

ans = 127 3 1 20 54 54

>>

**Task 2**

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**Output:**

>> task2

x =45

y =90

ans =1

Elapsed time is 0.000071 seconds.

ans =1

Elapsed time is 0.000049 seconds.

ans =1

Elapsed time is 0.000027 seconds.

ans =1

Elapsed time is 0.000032 seconds.

ans =1

Elapsed time is 0.000038 seconds.

>>

**Task 4**

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| --- |
|  |

**Output:**

>> task4

Enter value for a: 25

Enter value for b: 36

a = 36

b = 25

>>

**Task 5**

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**Output:**

>> task5

Enter the length of the a : 5

Enter the length of the b : 3

The length of the hypotenuse is 5.83.

>>

**Task 6**

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**Output:**

>> task6

Enter a temperature in Fahrenheit: 98

98.00 degrees Fahrenheit is equivalent to 36.67 degrees Centigrade.

>>

**Task 7:**

|  |
| --- |
|  |

**Output:**

>> 3 5 1 6 8 2 4 9 7 0

The normalized array of 10 numbers is:

0.3333 0.5556 0 0.6667 0.8889 0.1111 0.4444 1.0000 0.7778 0

**Task 3:**

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|  |

**Output:**

>> task3

Enter Grade points of LA : 3.5

Enter credit hours of LA : 3

Enter Grade points of DE : 4

Enter credit hours of DE : 3

Enter Grade points of CP : 4

Enter credit hours of CP : 3

Enter Grade points of CS-1 : 2.9

Enter credit hours of CS-1 : 3

Enter Grade points of CAD : 2.5

Enter credit hours of CAD : 3

ans =

CGPA : 2.818792e+01

ans =

Differential Equation : 3.500000e+00

ans =

Differential Equation : 4

ans =

Computer Programming : 4

ans =

Circuit & systems 1: 3

ans =

Drawing & CAD : 2.500000e+00

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